

## ABSTRACT

In order to obtain a solenoid valve device installed in a gas tank that is small in size and easy to attach to a gas tank, a valve body (8) including a flow passage (a) formed therein to communicate the inside and the outside of a gas tank (1) is inserted to the inside from the outside through a mouth hole (2) of the gas tank (1) and attached to the mouth hole (2). A valve seat (46) is provided in the flow passage (a), and a movable valve element (40) attached to or detached from the valve seat (46) is provided in the valve body (8). A solenoid unit (48) includes a movable core (50) engaged with the valve element (40) and a fixed core (64) facing the movable core (50) to attract the movable core (50) by the energization of a coil (74) and distract the movable core (50) by the non-energization of the coil (74). The solenoid unit (48) is arranged inside a storage hole (16) formed at an end part of the valve body (8) inside the gas tank (1). A cap member (90) is provided to cover the end part of the valve body (8) inside the gas tank (1). An opening (96) formed in an end face of the cap member (90) communicates with the flow passage (a), and a flat plate-like filter member (102) is disposed in the opening (96).